

April 15, 2010 NIST Smart Grid Privacy Subgroup Meeting Notes

Minutes by Rebecca Herold

Please send this distribution list any necessary corrections or additions.

We are a diverse group, with often differing viewpoints, but our collaboration and **respectful** consideration of all viewpoints will result in a much more valuable privacy chapter.

Next full group meeting:

Thursday, April 29, 2010 at 11:00am est

NOTE: We will NOT have a weekly full group meeting on 4/22; check with your team leaders to confirm your weekly team meetings

Here are my summary notes from this week's meeting:

1) Miscellaneous

- News from Monday's CSWG meeting: NISTIR will be delayed to the June/July timeframe because of the federal register notice delay. Comments still due June 2.
- Reminder: Even though this will be the final version of NISTIR 7628 our privacy group can continue on with work on smart grid privacy issues after publication.
- Tanya reported that there will be update possibilities to NISTIR 7628 every 6 months or so
- FYI: Next week is IAPP privacy conference in DC
- Chapter completion timeline review:
 - May 3: Each team complete their respective section content creation/update work by May 3 and send to Rebecca to incorporate into the master document to facilitate version control.
 - May 3 - May 28:
 - All privacy subgroup members will review the resulting updated master chapter document, discuss, provide feedback, and any necessary changes will be made.
 - Past experience shows that the discussions for finalizing the chapter bring with it many in-depth discussions and a lot of tweaking and possibly rearranging some of the content. However, by this point and by working in our teams, we should (fingers crossed) have all the privacy issues documented without needing any major changes.
 - May 31: The finished draft chapter (with no draft 2 public comments, since those will be coming in through June 1) will be submitted to Annabelle and Tanya for inclusion in the full NISTIR 7628 document.
 - June 2 & 3: We will review the full chapter draft at the face-to-face meeting in Herndon. This is where we will do a final review, make any final changes and also address the public comments.

- Weekly team meeting times
 - Team 2 Legal and Regulatory Issues: Wednesdays at noon eastern
 - Team 3 Use Cases: Thursdays at 10:00am eastern
 - Team 4 Expanding Upon Existing Privacy Issues: Wednesdays at 1pm eastern
- Be sure to use the energy terms definitions from Mark, and the Data_Types_with_Possible_Privacy_Implications.doc from Frances, both posted on the twiki, when doing the content update and creation

2) General Privacy Discussion & Definitions

- See the draft at
- <http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/NISTIR7628PrivacyIntroApr2010>.
- Privacy background discussion: No change suggestions
- Terms definitions discussion:
 - Suggested change for the FIPS definition to use the fuller set from the DHS; use the SP800-122 definition.
 - The new DHS definition also aligns more closely with the PIA that was performed last August for the home-to-utility scope.
 - Rebecca will update and redistribute

3) Team 2: Legal & Regulatory

- Team 2 update on work so far: Rebecca reported in Sarah's absence
- Team meeting on Wednesday reviewed making an update to the table listing privacy laws.
- Also discussed some of the issues related to law enforcement legal issues and legal issues related to utilities sharing consumer data with third parties.

4) Team 3: Use Cases

- Team 3 update on work so far: Gail reported
- Hovanes consolidated the greater group of use cases into one set of spreadsheets in an Excel file.
- Selecting 10 representative use cases to use through the process that applies the ISPTA privacy model to the use case structure.
- Tanya created the first use case model for this process; for applying to a utility for a PEV vehicle.
- Other possibilities include:
 - Tenant/landlord- note that within this section
 - Solar generation by consumer
 - HAN
- Other group members, please send suggestions for what to include in these 10 representative use cases to the smart grid privacy mail list!

- Will provide summary of use cases within the privacy chapter section, and the full details (each use case will likely be around 15 pages) in the NISTIR 7628 appendix with the other smart grid subgroups' use cases.
- Lillie is writing a discussion to include in this section of the chapter of how the ISPTA model can be applied for privacy.

5) Team 4: Expansion of Privacy Concerns and Issues

- Team 4 update on work so far: Jennifer reported
- Added info on law enforcement, and general info on privacy attitudes
- Other information is being added on 3rd party uses
- Working on updating the privacy issues tables

6) Open Forum Discussion of New Smart Grid Privacy Issues

- Chris K: Intel has a device that can monitor the power signature of specific devices.
 - Data obtained by the consumer with no smart meter involved, can be implemented even with no smart meter involved, signatures are fairly discreet. The consumers themselves gather the information.
 - Gives different angle on control of the data.
 - Proof of concept for those concerned with the ability of the signatures to be used for monitoring. Communicates with another device within the home.
 - The OS is MeeGo, a Linux derivative; the source code is published. This can be built onto.
 - Surveillance issues? Smart grid integration? If customer implements then they have control. Eavesdropping on the neighbors? The tenants? Will spot a signature, but the consumer has to assign that signature to meaning.
- Is encryption used for wireless sufficiently robust? WEP is not; WPA2 is current "considered sufficient" standard. Will continue to need stronger crypto algorithms as hackers learn to break current standards.
- Ken Wacks: Working on the Home to Grid Domain Expert Working Group
 - Objective to write white papers for NIST to consider for policy-making. e.g., home to grid requirements, privacy, etc.
 - Current project is free market choice for appliance physical communication. Portland General Electric is the lead author. Concern is proposals to mandate how appliances integrate to home networks. PGE reveals both technical problems as well as consumer reaction.
 - This is on twiki site. <http://www.nist.gov/smartgrid/>. Go to "Home to Grid" twiki near bottom. Look at the free market document.
 - Ken asked some of the privacy questions from that current paper.

Thanks!

Rebecca